

Amended

PATENT COOPERATION TREATY

PCT

REC'D 27 NOV 2001

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference HL/FI991802	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/FI00/00690	International filing date (day/month/year) 14/08/2000	Priority date (day/month/year) 24/08/1999
International Patent Classification (IPC) or national classification and IPC D21H19/00		
Applicant VALMET CORPORATION et al.		



1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 5 sheets, including this cover sheet.

☒ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 8 sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☒ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 21/03/2001	Date of completion of this report 22.11.2001
Name and mailing address of the international preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 eprmu d Fax: +49 89 2399 - 4465	Authorized officer Naeslund, P Telephone No. +49 89 2399 8614 

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/FI00/00690

1. Basis of the report

1. With regard to the **elements** of the international application (*Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)*):

Description, pages:

1-6 with telefax of 05/09/2001

Claims, No.:

1-6 with telefax of 05/09/2001

Drawings, sheets:

1/1 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
- ☐ the claims, Nos.:

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. PCT/FI00/00690

☐ the drawings, sheets:

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes:	Claims	1-6
	No:	Claims	NONE
Inventive step (IS)	Yes:	Claims	NONE
	No:	Claims	1-6
Industrial applicability (IA)	Yes:	Claims	1-6
	No:	Claims	NONE

2. Citations and explanations
see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:
see separate sheet

Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

- D1: JP-A- 05 331793 cited as a Derwent abstract
- D2: US-A-4 016 030
- D3: US-A-5 163 364
- D4: DE-A- 38 15 446
- D5: EP-A-0 719 891

1. From documents D1* and D2 (see Fig. 1 with corresponding parts in the application, in particular ref. signs 20 and 22) there are known methods and apparatuses for surface treatment of paper comprising glazing and drying with a Yankee followed by calendering of the web.

Independent claims 1 and 4 therefore only differ in that the calender is of the "shoe or extended-nip" type. No inventive step based on this feature could however be seen. It is well-known in the field to apply shoe or extended-nip calendering units for these type of products. See e.g. D3, claim 1 and Fig. 1. Therefore the skilled man would have incorporated such units as described in D3 in the methods and apparatuses of documents D1 (if not already disclosed) or D2.

Claims 1 and 4 hence lack an inventive step (Art. 33(3) PCT).

The attention is additionally directed to D4 (see col. 1, line 32-38; figure 5) as well as D5 (see col. 1, line 10-line 14; Figure 3, ref. sign 25) both these latter documents describe calendering of webs for the same purpose as according to the present invention. The dependent claims would only appear to relate routine measures by the skilled person in the field.

2. For the assessment of the present claims on the question whether they are

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/FI00/00690

industrially applicable, no particular reasoning would appear necessary to give.
The industrial applicability would appear self evident (Art. 33(4) PCT).

- *) It would appear expedient that the applicant provides a full-text translation of document D1 (the original JP document) on entry of the national/regional phase such the pertinence of this document can be fully assessed.

Re Item VII

Certain defects in the international application

Documents D1-D5 should be (correctly) acknowledged in the description.

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference HL/FI991802	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/ FI 00/ 00690	International filing date (day/month/year) 14/08/2000	(Earliest) Priority Date (day/month/year) 24/08/1999
Applicant VALMET CORPORATION et al.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

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☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☒ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

1

☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/FI 00/00690

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 D21G1/00 D21F5/02.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 D21G D21F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>✓ DATABASE WPI Section Ch, Week 199403 Derwent Publications Ltd., London, GB; Class A14, AN 1994-023408 XP002901429 & JP 05 331793 A (OJI PAPER CO), 14 December 1993 (1993-12-14) abstract</p>	1,3-5,7, 8
Y		2,6
X	<p>✓ US 4 016 030 A (SOBOTA JOHN T) 5 April 1977 (1977-04-05) the whole document</p>	1,3-5,7, 8
Y	<p>✓ US 5 163 364 A (DAHL HANS ET AL) 17 November 1992 (1992-11-17) column 1, line 53 - line 57</p>	2,6
	-/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance
 "E" earlier document but published on or after the international filing date
 "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
 "O" document referring to an oral disclosure, use, exhibition or other means
 "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
 "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
 "&" document member of the same patent family

Date of the actual completion of the international search

21 November 2000

Date of mailing of the international search report

16. 03. 2001

Name and mailing address of the ISA
 European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Helena Hemphala

INTERNATIONAL SEARCH REPORT

International Application No

PCT/FI 00/00690

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	✓ DE 38 15 446 A (KUESTERS EDUARD MASCHF) 16 November 1989 (1989-11-16) column 1, line 32 - line 38; figure 5 ---	1-8
A	✓ EP 0 719 891 A (VALMET CORP) 3 July 1996 (1996-07-03) column 1, line 10 - line 14 -----	1-8

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/FI 00/00690

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 5331793	A	14-12-1993	NONE	
US 4016030	A	05-04-1977	NONE	
US 5163364	A	17-11-1992	AT 76134 T DE 3920204 A EP 0370185 A	15-05-1992 10-05-1990 30-05-1990
DE 3815446	A	16-11-1989	FI 892163 A	07-11-1989
EP 0719891	A	03-07-1996	US 5524532 A CA 2164996 A FI 956102 A,B, JP 8246379 A	11-06-1996 29-06-1996 29-06-1996 24-09-1996

PCT

NOTIFICATION OF THE RECORDING OF A CHANGE

(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

From the INTERNATIONAL BUREAU

To:

FORSSÉN & SALOMAA OY
Eerikinkatu 2
FIN-00100 Helsinki
FINLANDE

Date of mailing (day/month/year) 29 January 2002 (29.01.02)	
Applicant's or agent's file reference HL/FI991802	IMPORTANT NOTIFICATION
International application No. PCT/FI00/00690	International filing date (day/month/year) 14 August 2000 (14.08.00)

1. The following indications appeared on record concerning: <input type="checkbox"/> the applicant <input type="checkbox"/> the inventor <input checked="" type="checkbox"/> the agent <input type="checkbox"/> the common representative		
Name and Address FORSSÉN & SALOMAA OY Yrjönkatu 30 FIN-00100 Helsinki Finland	State of Nationality	State of Residence
	Telephone No. +358 9 615 3500	
	Facsimile No. +358 9 615 35111	
	Teleprinter No.	
2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning: <input type="checkbox"/> the person <input type="checkbox"/> the name <input checked="" type="checkbox"/> the address <input type="checkbox"/> the nationality <input type="checkbox"/> the residence		
Name and Address FORSSÉN & SALOMAA OY Eerikinkatu 2 FIN-00100 Helsinki Finland	State of Nationality	State of Residence
	Telephone No. +358 9 615 3500	
	Facsimile No. +358 9 615 35111	
	Teleprinter No.	
3. Further observations, if necessary:		
4. A copy of this notification has been sent to: <div style="display: flex; justify-content: space-between;"> <div> <input checked="" type="checkbox"/> the receiving Office <input type="checkbox"/> the International Searching Authority <input type="checkbox"/> the International Preliminary Examining Authority </div> <div> <input type="checkbox"/> the designated Offices concerned <input checked="" type="checkbox"/> the elected Offices concerned <input type="checkbox"/> other: </div> </div>		

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer Peter WIMMER Telephone No.: (41-22) 338.83.38
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PCT

From the INTERNATIONAL BUREAU

**NOTIFICATION OF THE RECORDING
OF A CHANGE**

(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

To:

FORSSÉN & SALOMAA OY
Yrjönkatu 30
FIN-00100 Helsinki
FINLANDE

Date of mailing (day/month/year) 10 April 2001 (10.04.01)	
Applicant's or agent's file reference HL/FI991802	IMPORTANT NOTIFICATION
International application No. PCT/FI00/00690	International filing date (day/month/year) 14 August 2000 (14.08.00)

1. The following indications appeared on record concerning: <input checked="" type="checkbox"/> the applicant <input type="checkbox"/> the inventor <input type="checkbox"/> the agent <input type="checkbox"/> the common representative		
Name and Address VALMET CORPORATION Fabianinkatu 9 A FIN-00130 Helsinki Finland	State of Nationality FI	State of Residence FI
	Telephone No.	
	Facsimile No.	
	Teleprinter No.	
2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning: <input type="checkbox"/> the person <input checked="" type="checkbox"/> the name <input type="checkbox"/> the address <input type="checkbox"/> the nationality <input type="checkbox"/> the residence		
Name and Address METSO PAPER, INC. Fabianinkatu 9 A FIN-00130 Helsinki Finland	State of Nationality FI	State of Residence FI
	Telephone No.	
	Facsimile No.	
	Teleprinter No.	
3. Further observations, if necessary: 		
4. A copy of this notification has been sent to: <div style="display: flex; justify-content: space-between;"> <div> <input checked="" type="checkbox"/> the receiving Office <input checked="" type="checkbox"/> the International Searching Authority <input type="checkbox"/> the International Preliminary Examining Authority </div> <div> <input checked="" type="checkbox"/> the designated Offices concerned <input type="checkbox"/> the elected Offices concerned <input type="checkbox"/> other: </div> </div>		

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer F. Baechler Telephone No.: (41-22) 338.83.38
--	--

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Commissioner
US Department of Commerce
United States Patent and Trademark
Office, PCT
2011 South Clark Place Room
CP2/5C24
Arlington, VA 22202
ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

Date of mailing (day/month/year) 09 May 2001 (09.05.01)	
International application No. PCT/FI00/00690	Applicant's or agent's file reference HL/FI991802
International filing date (day/month/year) 14 August 2000 (14.08.00)	Priority date (day/month/year) 24 August 1999 (24.08.99)
Applicant KOIVUKUNNAS, Pekka et al	

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:
21 March 2001 (21.03.01)

☐ in a notice effecting later election filed with the International Bureau on:

2. The election ☒ was

☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer Charlotte ENGER Telephone No.: (41-22) 338.83.38
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PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference HL/FI991802	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/ FI 00/ 00690	International filing date (day/month/year) 14/08/2000	(Earliest) Priority Date (day/month/year) 24/08/1999
Applicant VALMET CORPORATION et al.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☒ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

1
☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/FI 00/00690

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 D21G1/00 D21F5/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 D21G D21F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE WPI Section Ch, Week 199403 Derwent Publications Ltd., London, GB; Class A14, AN 1994-023408 XP002901429 & JP 05 331793 A (OJI PAPER CO), 14 December 1993 (1993-12-14) abstract	1,3-5,7, 8
Y	---	2,6
X	US 4 016 030 A (SOBOTA JOHN T) 5 April 1977 (1977-04-05) the whole document	1,3-5,7, 8
Y	---	2,6
	US 5 163 364 A (DAHL HANS ET AL) 17 November 1992 (1992-11-17) column 1, line 53 - line 57 ---	
	--- -/--	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

21 November 2000

Date of mailing of the international search report

16. 03. 2001

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Helena Hemphala

INTERNATIONAL SEARCH REPORT

International Application No

PCT/FI 00/00690

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/FI 00/00690

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 5331793 A	14-12-1993	NONE	
US 4016030 A	05-04-1977	NONE	
US 5163364 A	17-11-1992	AT 76134 T DE 3920204 A EP 0370185 A	15-05-1992 10-05-1990 30-05-1990
DE 3815446 A	16-11-1989	FI 892163 A	07-11-1989
EP 0719891 A	03-07-1996	US 5524532 A CA 2164996 A FI 956102 A,B, JP 8246379 A	11-06-1996 29-06-1996 29-06-1996 24-09-1996

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

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International Patent Classification (IPC) or national classification and IPC D21H19/00		
Applicant VALMET CORPORATION et al.		



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- VII ☒ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 21/03/2001	Date of completion of this report 22.11.2001
Name and mailing address of the international preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized officer Naeslund, P Telephone No. +49 89 2399 8614 

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/FI00/00690

I. Basis of the report

1. With regard to the **elements** of the international application (*Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)*):

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1-6 with telefax of 05/09/2001

Claims, No.:

1-6 with telefax of 05/09/2001

Drawings, sheets:

1/1 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

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- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
- ☐ the claims, Nos.:

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☐ the drawings, sheets:

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes:	Claims	1-6
	No:	Claims	NONE
Inventive step (IS)	Yes:	Claims	NONE
	No:	Claims	1-6
Industrial applicability (IA)	Yes:	Claims	1-6
	No:	Claims	NONE

2. Citations and explanations
see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:
see separate sheet

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R Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

- D1: JP-A- 05 331793 cited as a Derwent abstract
- D2: US-A-4 016 030
- D3: US-A-5 163 364
- D4: DE-A- 38 15 446
- D5: EP-A-0 719 891

1. From documents D1* and D2 (see Fig. 1 with corresponding parts in the application, in particular ref. signs 20 and 22) there are known methods and apparatuses for surface treatment of paper comprising glazing and drying with a Yankee followed by calendering of the web.

Independent claims 1 and 4 therefore only differ in that the calender is of the "shoe or extended-nip" type. No inventive step based on this feature could however be seen. It is well-known in the field to apply shoe or extended-nip calendering units for these type of products. See e.g. D3, claim 1 and Fig. 1. Therefore the skilled man would have incorporated such units as described in D3 in the methods and apparatuses of documents D1 (if not already disclosed) or D2.

Claims 1 and 4 hence lack an inventive step (Art. 33(3) PCT).

The attention is additionally directed to D4 (see col. 1, line 32-38; figure 5) as well as D5 (see col. 1, line 10-line 14; Figure 3, ref. sign 25) both these latter documents describe calendering of webs for the same purpose as according to the present invention. The dependent claims would only appear to relate routine measures by the skilled person in the field.

2. For the assessment of the present claims on the question whether they are

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industrially applicable, no particular reasoning would appear necessary to give.
The industrial applicability would appear self evident (Art. 33(4) PCT).

- *) It would appear expedient that the applicant provides a full-text translation of document D1 (the original JP document) on entry of the national/regional phase such the pertinence of this document can be fully assessed.

Re Item VII

Certain defects in the international application

Documents D1-D5 should be (correctly) acknowledged in the description.